Versatility in

TERRAZZO

with DIVIDING STRIPS

MANHATTAN

TERRAZZO STRIPS

PERMIT UNLIMITED FLEXIBILITY IN EXPRESSION OF MODERN ARCHITECTURAL IDEAS

Terrazzo, a Venetian art, centuries old, has come to be one of the most beautiful of modern floor treatments. Terrazzo is unsurpassed as a medium for expression in design and color for use on floors, stairs, partitions, wainscot, ornamental murals and similar decorative units.

In this catalog we have included many unusual terrazzo installations as examples of the wide range of application of this versatile material.

A modern accessory and necessity in terrazzo work is the dividing strip. These strips tend to reduce the possibilities of cracking and when cracks do occur they are confined within the limits of the dividing strip making them less noticeable. The use of dividing strips permits the architect to create any design desired to blend with the entire decorative scheme.

MANHATTAN TERRAZZO STRIPS ARE PRODUCED IN A MODERN PLANT

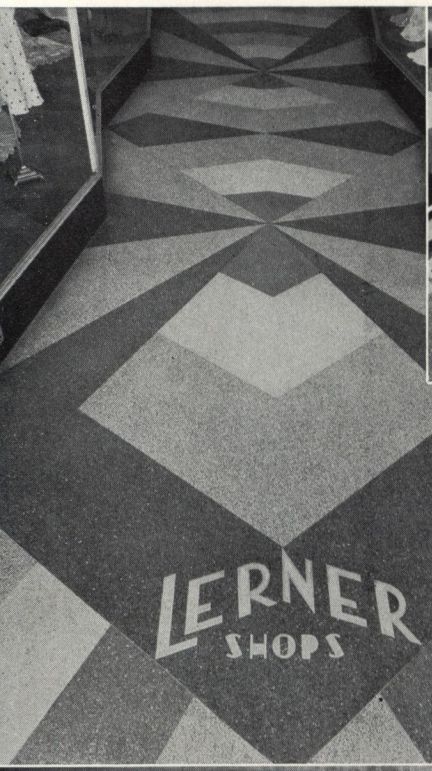
Manhattan Dividing Strips for Terrazzo, Marble, Composition, Linoleum and Cement floors are manufactured in a modern plant equipped with the latest machinery. Our trained personnel represent the best in experienced workmen — our facilities enable us to handle any size order at short notice. The illustrations below show the various departments in our plant. Reading from left to right, *top row*: Stock Room, Office; *bottom row*, Heavy Top Dept., Press Dept., Base Bead Dept.

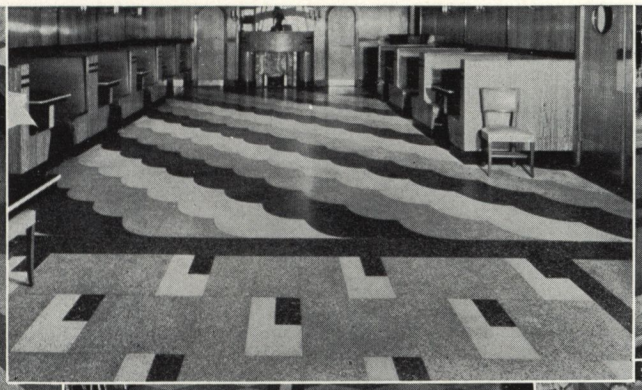
The Covers: We are indebted to the Universal Atlas Cement Company for the illustration on the front cover of this catalog, and to the Medusa Portland Cement Company for the back cover illustration, both of which illustrate unusual and distinctive terrazzo installations made possible by the use of white cement.

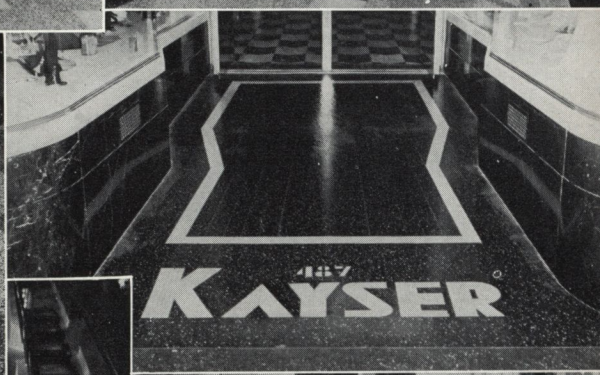
Terrazzo Floors in

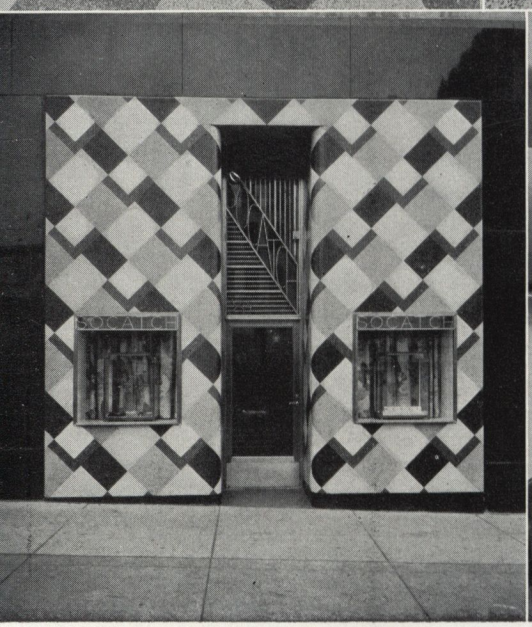
STORES AND RESTAURANTS

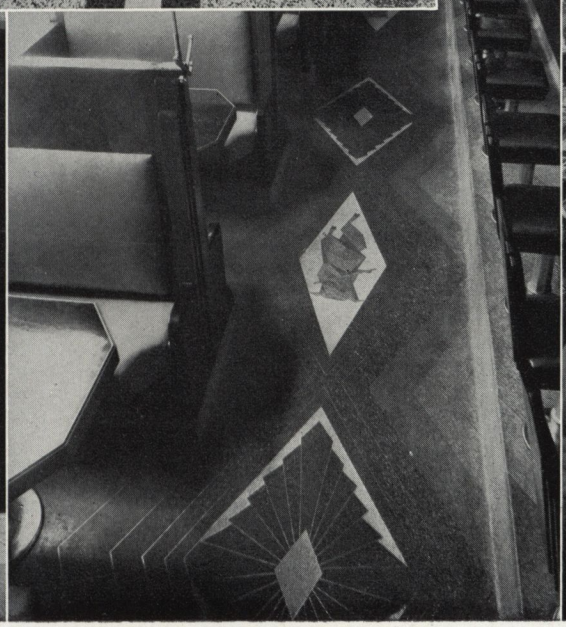
The application of Terrazzo in stores and restaurants serves a two-fold purpose; attraction value and ease of maintenance. Terrazzo resists wear, pleases the eye, and its sparkling beauty creates a pleasing impression in the mind of the potential customer. The illustrations shown on this page suggest some unusual methods of employing terrazzo effectively and attractively. *Low first cost — low maintenance cost — years of service.*







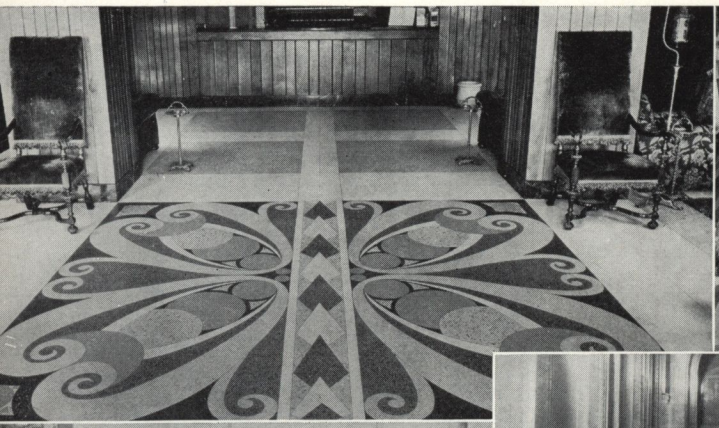


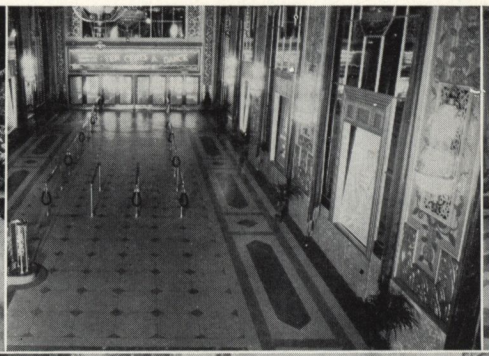


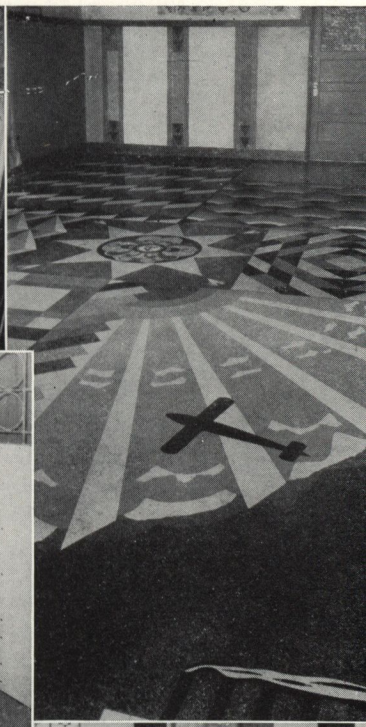
Terrazzo Floors in

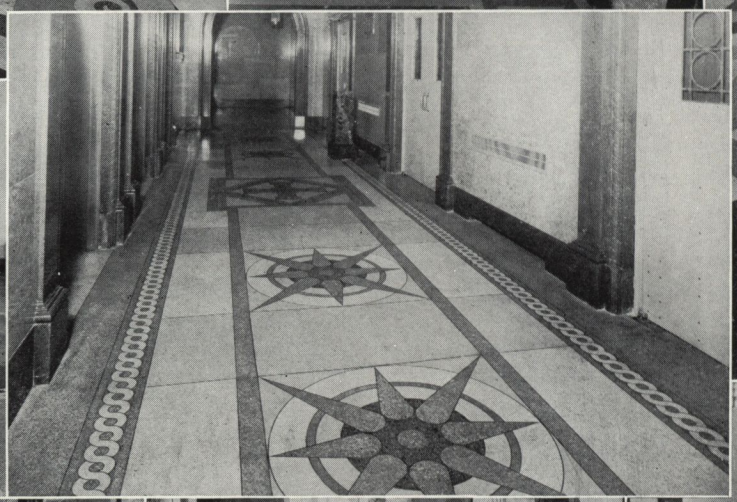
LOBBIES AND CORRIDORS

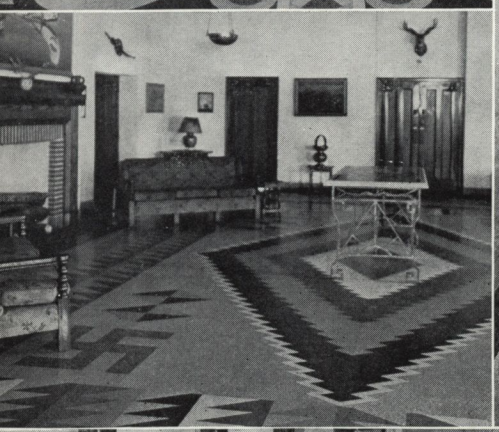
Terrazzo floors are extremely practical, less slippery than most floors, owing to the cement contained, and may be enriched with ornamental borders and motives of marble mosaic. Inserts of cast metal, flush or in relief add to the attraction value. The use of dividing strips in the floors shown on this page separate the different color areas and outline the various parts of the designs to advantage. Entrances and hallways leave distinct impressions — make them pleasing with terrazzo designs.

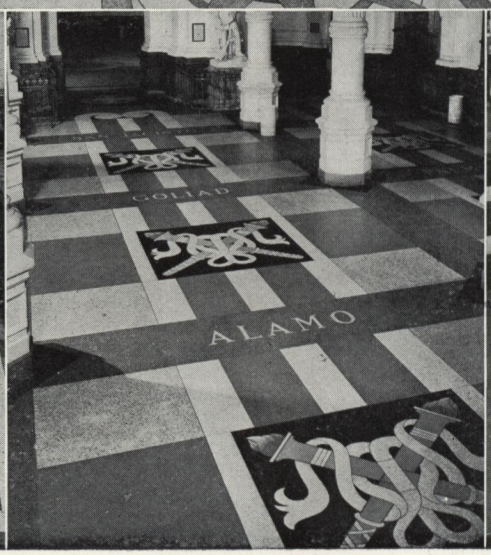








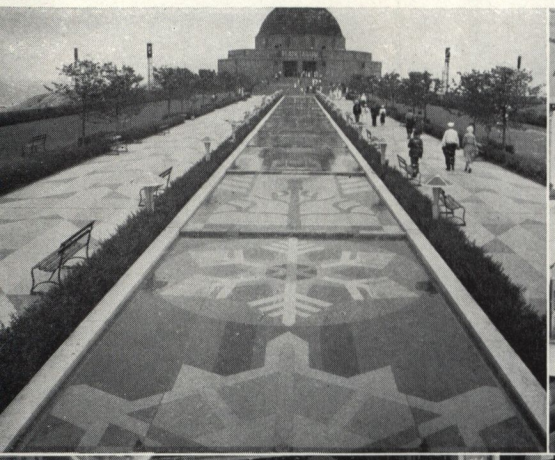


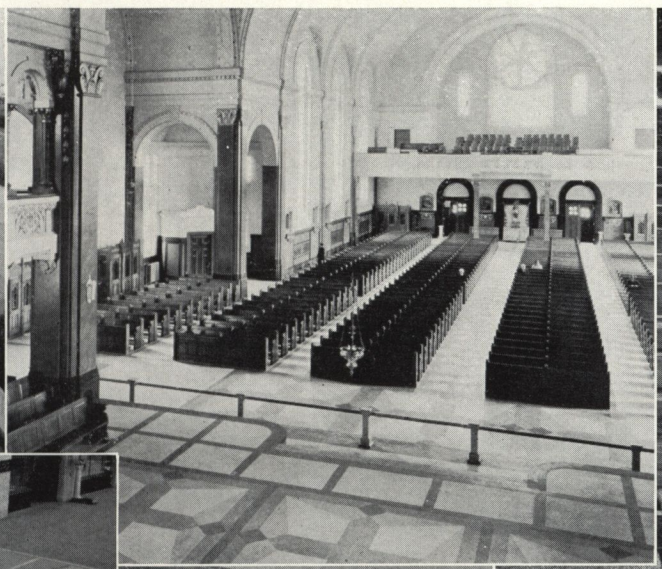


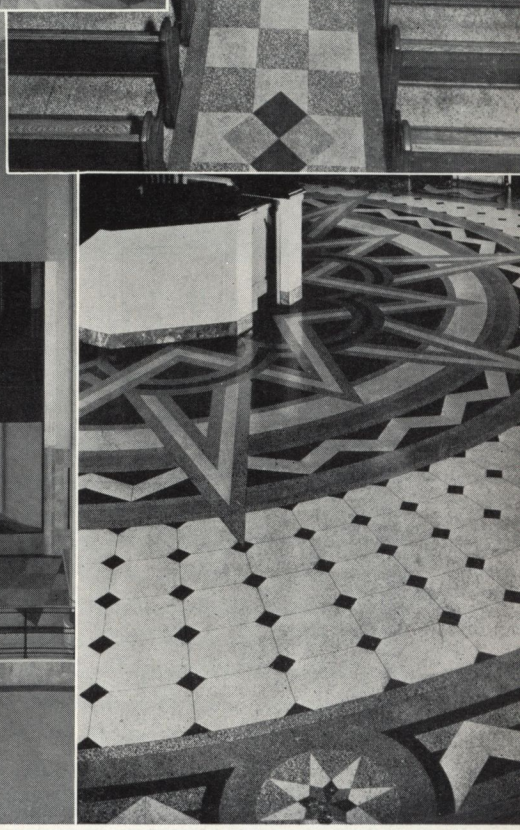
Terrazzo Floors in

MISCELLANEOUS PUBLIC SPACES

Areas subjected to severe wear — churches — sidewalks and similar public spaces are ideal locations for terrazzo work. Beauty, combined with low maintenance cost makes terrazzo the logical choice where attractiveness is an asset. The flexibility of terrazzo allows the architect great freedom in creating a design in keeping with surroundings. The illustrations shown on this page illustrate typical modern treatments employing terrazzo effectively.



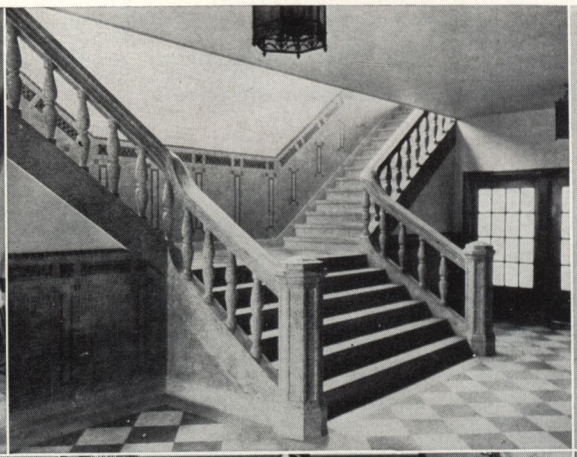


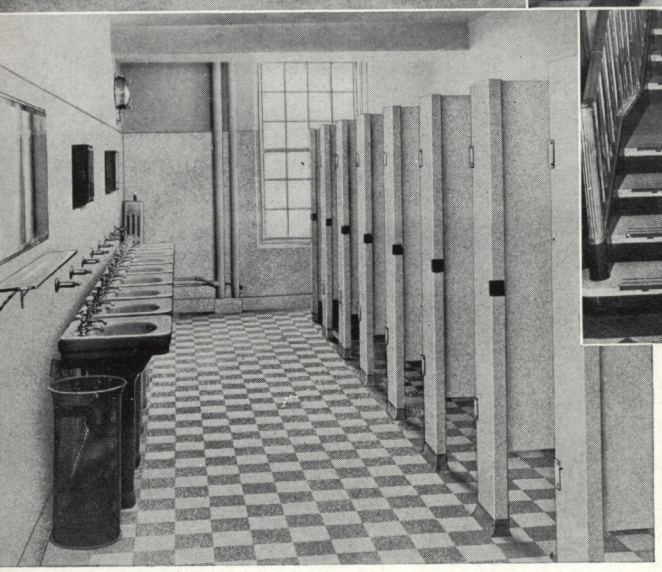


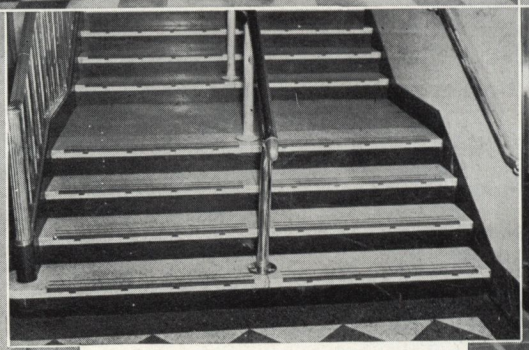
TERRAZZO FOR

WAINSCOTING • PARTITIONS • STAIRS

The use of terrazzo for wainscoting and partitions presents an entirely new field for the architect. When used for these purposes, terrazzo is run plastic the same as plaster. This prevents any possibility of the walls working loose and gives an excellent appearing installation. Stair treads, a common usage, are usually precast and finished at the shop and set at the building in the same manner as marble. They may, however, be installed in mastic form on the job. The use of an aggregate in the making of stair treads makes them non-slip and wear resistant, enabling the architect to combine the beauty of terrazzo with the non-slip advantages of an abrasive stair tread.





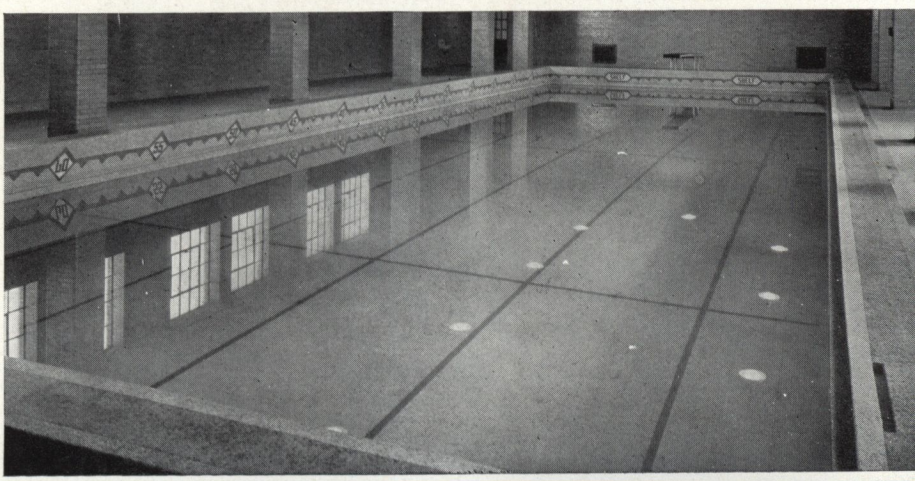


Note: The example of terrazzo wainscot (shown at the right) is part of a permanent terrazzo display installed in the Procurement Division, Washington, D. C. by the National Terrazzo and Mosaic Association. This display is only one of many and represents the materials of no single manufacturer.

Photo at right: Copyrighted by Harris & Ewing.

TERRAZZO FOR SWIMMING POOLS

The use of terrazzo in designing decorative effects for swimming pools may be traced back to ancient Venetian times. Excavations in and around Venice in recent years have unearthed swimming pools employing intricate designs executed in terrazzo. The adaptation of terrazzo to modern swimming pools gives the architect free rein in creating a pool that will harmonize with any design motive employed elsewhere in the building, or he may deviate from other designs and perhaps employ a marine motive, with equal success. Whatever the design terrazzo assures faithful reproduction.



HOSPITAL GRILLES

Where terrazzo is used in surgical operating rooms, anaesthesia rooms or allied rooms and corridors, the floors should be divided by metal strips of fairly heavy thickness into small squares or tiles. All strips should be connected to make positive electrical contact at all intersections, and the entire system should be grounded to water pipe or some other suitable conductor. This will prevent any danger of electric spark due to potential difference igniting any gas which may be present around the patient who is under anaesthesia on the operating table.

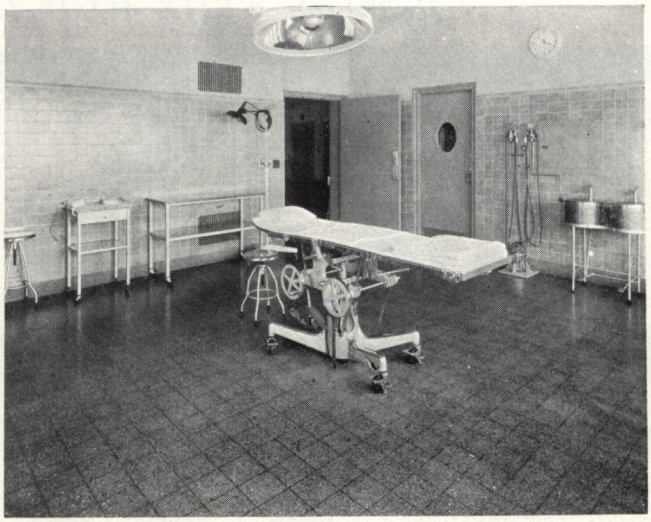
Concerning this subject, the National Board of Fire Underwriters states and recommends as follows: "The most elusive form of ignition of an anaesthetizing gas or vapor is the static spark. To guard against this hazard, insulating material should be avoided and machines, tables, patients and operators bonded together and to the floor and the latter thoroughly grounded."

The Manhattan system of grounding for the elimination of static has been in use for many years in conjunction with terrazzo, tile and composition floors. Many hospitals over the entire country have included these grilles in their specifications, realizing their vital importance.

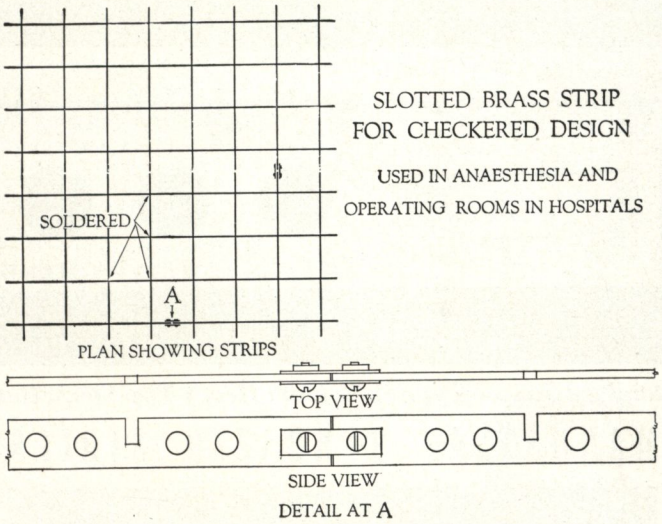
The grilles are available in 4, 5 and 6-in. squares for terrazzo and composition floors—6-in. squares are recommended for economy. For tile floors the squares are usually ½-in. larger than the individual tiles. Squares of the above size are small enough to assure contact with the foot of a small person.

Heavy metal is essential for a good contact. 1/16 to ⅛-in. brass or white alloy zinc has mainly been used. The depths are as follows: ¾, 1 or 1¼ in. for terrazzo; 1 or 1¼ in. for tile and ⅝ in. for composition floors (fitted for nailing to the floor). **For terrazzo, ¾x⅛-in. brass is recommended in 6-in. grilles.**

The strips are slotted and soldered so that they are united electrically. The grounding is completed by connecting the system in each room or corridor with a water or steam pipe. The grilles are shipped in sections approximately 36x36 ins. and are joined on the job by brass bars and bolts. The assembly and grounding of the units requires comparatively little labor, as each section is numbered and an assembly drawing is supplied to every job.



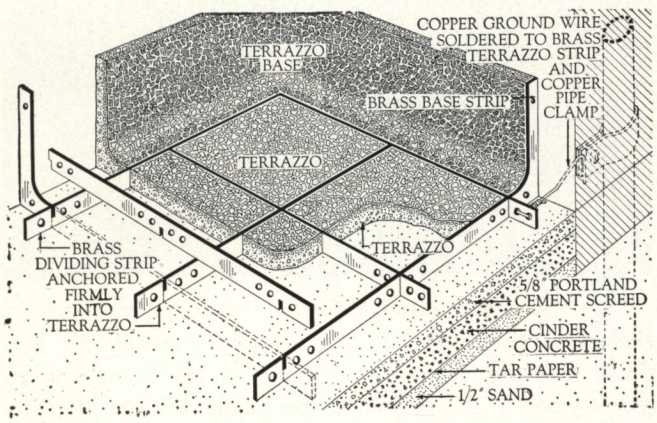
Operating Room with Manhattan Hospital Grilles in Floor, Doctors Hospital, New York, N. Y.



Method of Bolting Sections Together to Form One Unit

INSTALLATIONS

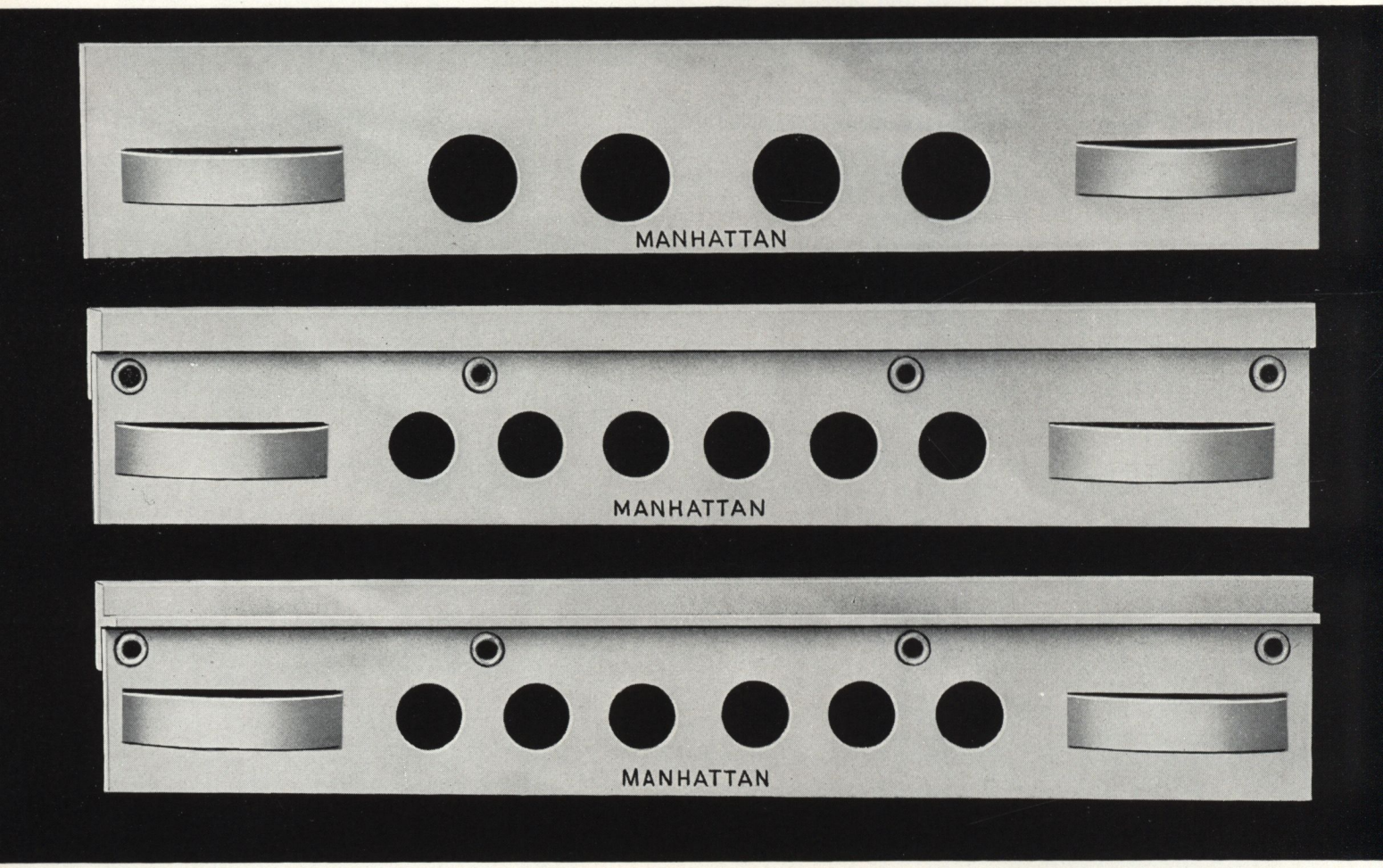
Brooklyn Hospital, Brooklyn, N. Y.
Big Sisters Hospital, Ventura, Calif.
Charlotte Hungerford Hospital, Torrington, Conn.
Doctors Hospital, New York, N. Y.
Delsin Sanitarium, Brooklyn, N. Y.
Easton Hospital, Easton, Pa.
Foote Memorial Hospital, Jackson, Mich.
Glen Lake Sanatorium, Glen Lake, Minn.
Holy Name of Jesus Hospital, Gadsden, Ala.
Hillman Hospital, Birmingham, Ala.
Harbor View Hospital, Seattle, Wash.
Hospital of State University of Iowa, Iowa City, Iowa
Kings County Hospital, Brooklyn, N. Y.
New Hospital of Penn Industrial Reformatory, Huntingdon, Pa.
U. S. Veterans' Hospital, Mt. Alto, Washington, D. C.
U. S. Veterans' National Home Hospital, Milwaukee, Wis.



Details Showing Application of Hospital Grilles

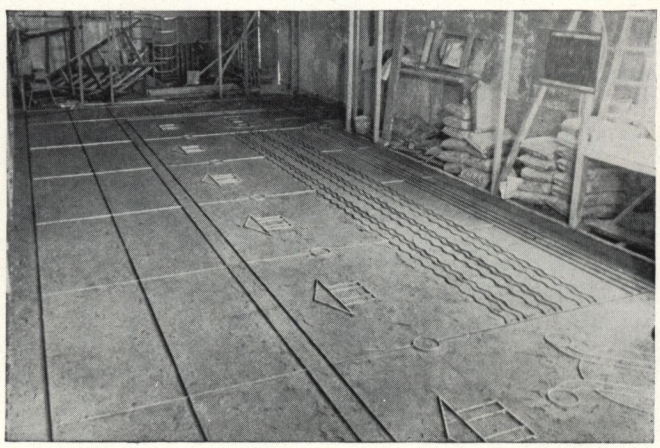
MANHATTAN TERRAZZO STRIPS

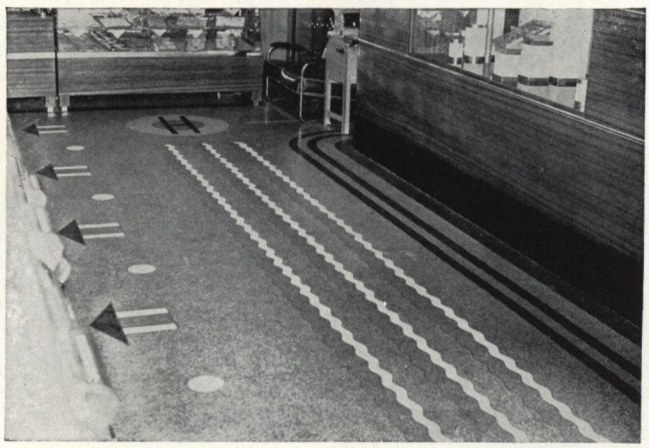
IN BRASS, WHITE ALLOY (ZINC), AND NICKEL SILVER



Top: Standard Strip—Type B, Center: Heavy Top Strip, Bottom: Strip for Linoleum, Rubber and Asphalt Tile Walkways

MANHATTAN TERRAZZO STRIPS MADE THIS DESIGN POSSIBLE





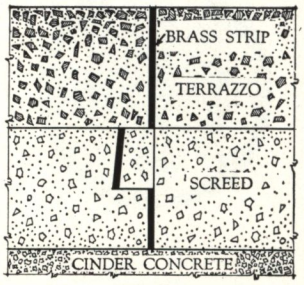
The use of dividing strips, in straight and curved shapes, of this modern bake shop floor are clearly evident. The photograph at the left shows the strips in place prior to the laying of the finished floor. The picture at the right shows the completed installation viewed from almost the same spot. The pleasing design is at once apparent. For food stores of any description terrazzo is unexcelled. It personifies cleanliness, is beautiful in appearance and its ease of maintenance makes it the ideal floor material. The use of Manhattan Dividing Strips will enhance the beauty of the design employed, and greatly add to the attraction value.

MANHATTAN TERRAZZO STRIPS

STANDARD STRIP TYPE B

For terrazzo designs of all kinds, the simplest, most pliable, economical and easily handled Manhattan Strip is the Type B Twin Anchor Brand. Made of brass (semi-hard), nickel-silver and white alloy (zinc) in various B&S gauges, and widths. Also in bronze and copper on special order.

The metal is rigid vertically, but sufficiently pliable horizontally to permit its conforming to practically any desired figures, shapes and designs. **The *curved projections* which are integral parts of the strip, positively anchor in the *screed* and do not depend on the finish coat of terrazzo to keep them in place.** The arc anchor does not form air pockets which result in cracking of the terrazzo. There is an angular incline to the arc so that when it penetrates the screed it shears off or displaces the screed, forcing it sideways through the opening, thus forming the lock. With this firm anchorage the strips cannot get out of line, horizontally or vertically, even while applying and rolling the terrazzo aggregate. The punched holes in the strip provide an additional lock.



Full Size Section Taken Through Arc Anchor

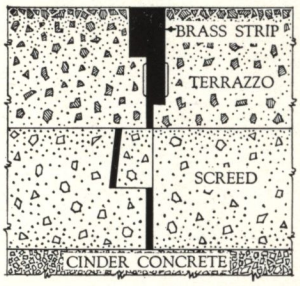
HEAVY TOP STRIP

Provides a wide wearing surface without the prohibitive cost of material and handling of a solid strip of the same thickness, saving in metal approximately 35% to 50% depending on the gauge used. It also has the advantage of shaping up easily for special design work.

Furnished with *brass, nickel-silver* or white alloy (zinc) top securely riveted to a bottom strip which is identical to the Type B strip. The bottom strip used with the brass top is of 20 B&S gauge brass, whereas it is made of 18 B&S gauge white alloy (zinc) for use with the nickel-silver top. Tops are available in $\frac{1}{8}$, $\frac{3}{16}$ and $\frac{1}{4}$-in. thicknesses. $\frac{3}{8}$ and $\frac{1}{2}$-in. tops may also be had but of a different construction. The total width of all sizes of strips is approximately $1\frac{1}{4}$ in. Also furnished in widths of 1 and $1\frac{1}{2}$ in. on short notice. All sizes are furnished in 6-ft. lengths only.

The bottom strip and heavy top is assembled by means of eyelet rivets (method fully covered by patents) spaced 2 in. apart. This method of fastening is firm and there is no danger of the assembly working loose or separating, either during installation or after the floor is completed and in use.

The bottom strip, being identical to the Type B, imparts to this heavy top all the features and advantages of the thin strip.



Full Size Section Taken Through Arc Anchor

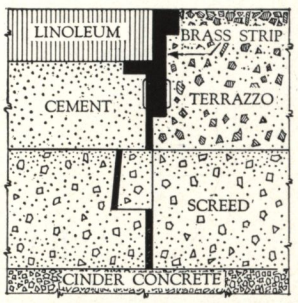
STRIP FOR LINOLEUM, RUBBER AND ASPHALT TILE WALKWAYS

Recommended where it is desired to provide a walkway surface between terrazzo borders or cove bases. Constructed the same as the heavy top with the exception that an offset or projection below the top of the strip extends from the strip on one side. This projection provides a bearing surface for the linoleum at the proper depth to permit the surfaces of the linoleum and brass strip to be flush.

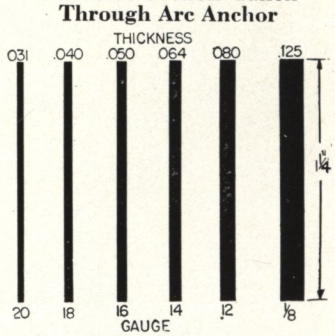
This strip is made of brass and white alloy (zinc) in the following sizes: $\frac{1}{8}$-in. top for $\frac{3}{16}$ and $\frac{1}{4}$-in. linoleum and $\frac{3}{16}$-in. top for $\frac{1}{4}$-in. linoleum. Furnished in 6-ft. lengths only.

Points of Advantage—The strip provides an integral unit for receiving the linoleum, rubber or asphalt tile and provides a perfect abutment for the terrazzo border. The projection acts as a depth gauge for the cement finisher, which results in the linoleum, terrazzo border and brass strip being at *exactly the same level.* Cracking of the terrazzo border is controlled as in large floor areas where strips are used, and cracks in the screed under the linoleum are prevented from extending into the terrazzo border. The previously mentioned features of anchorage and rivet assembly also apply to this strip.

Specify Manhattan, or equal, and you are assured of the best



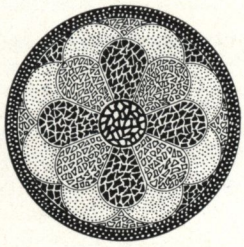
Full Size Section Taken Through Arc Anchor



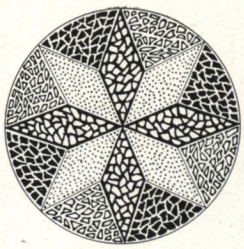
Actual Thickness of Standard Strip (B & S gauge)

TERRAZZO FLOOR ACCESSORIES

CENTERPIECES

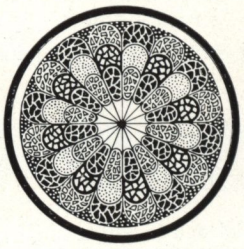


C-2



C-3

C-5



C-8

SOLID INSERTS

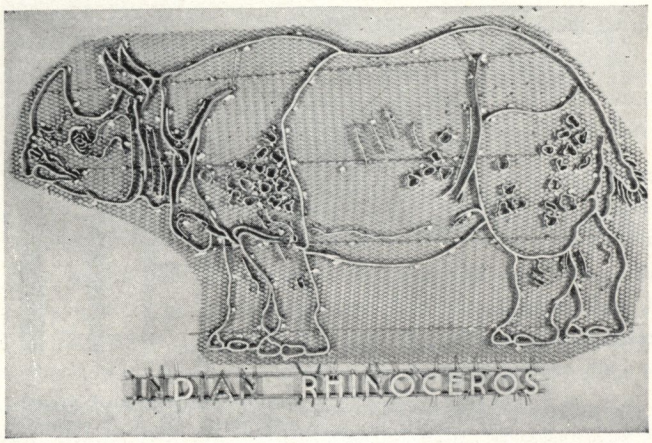
LETTERS

Script

ABCDEF

GHIJKL

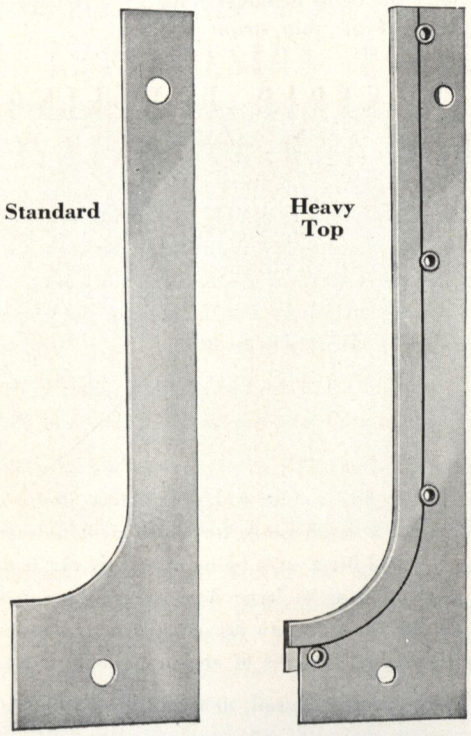
DESIGNS



The terrazzo accessories shown on this page play an important part in the creation of attractive and unusually decorative effects. We specialize in executing the unusual for store entrances and similar applications. For additional information, write direct.

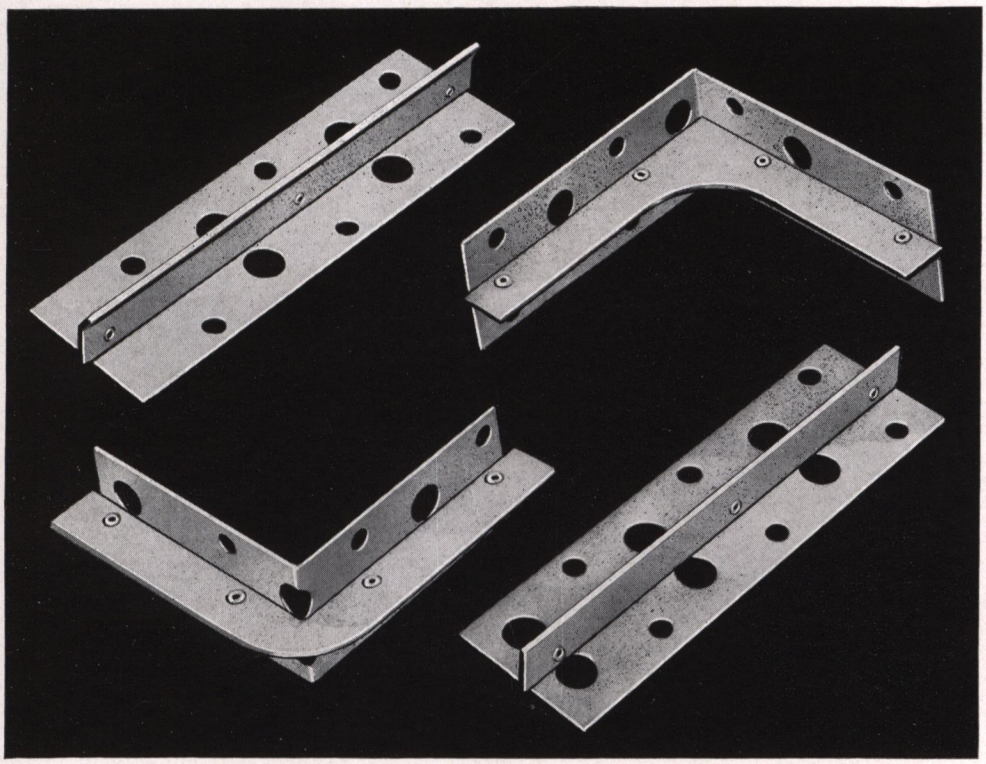
COVE DIVIDERS

Brass and White Alloy (Zinc)

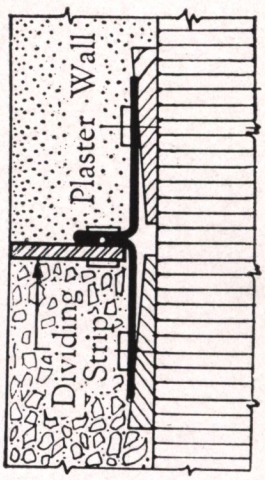


MANHATTAN BASE BEADS AND CORNERS

FLUSH AND PROJECTING TYPE



Base Beads and Corners are Furnished in Brass and White Alloy Zinc or other non-corrosive metal.



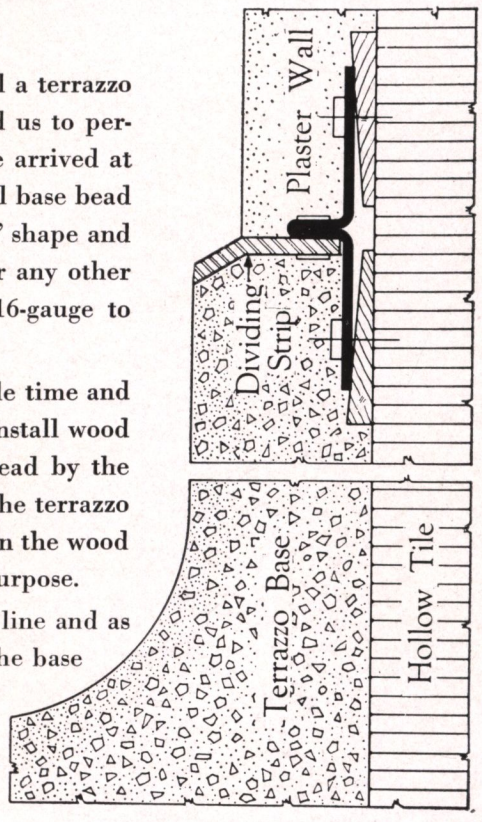
Flush Type

It is frequently desirable, when installing a terrazzo floor, to install a terrazzo base as well. The possibilities of terrazzo as a base material have lead us to perfect a noncorrosive base bead. After considerable experimentation, we arrived at the two types of base beads shown on this page which admirably fill all base bead requirements. The bottom member is made of galvanized metal in "T" shape and to the leg of this member we fasten strips of brass, white alloy zinc or any other noncorrosive metal that may be specified, of any thickness from 16-gauge to ¼ inch furnished in 10 foot lengths.

A base bead of this type enables the contractor to save considerable time and money. Before the development of this base bead, it was necessary to install wood grounds for the terrazzo base. The installation of this metal base bead by the furring and lathing man ended a long standing controversy between the terrazzo man and the plasterer as to who should install the wood ground. When the wood grounds were removed they were a total loss and served no useful purpose.

The Manhattan *Type G* Base Bead serves as a permanent dividing line and as a permanent ground between base and plaster. The exposed edge of the base bead being solid permits extensive grinding without showing breaks—a common difficulty when folded galvanized base beads are used.

When specifying, mention Type G (flush or projecting type) in . . gauge as manufactured by Manhattan Terrazzo Brass Strip Company.



Projecting Type
Method of Installation

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MANHATTAN TERRAZZO BRASS STRIP CO., INC.

1915 PARK AVENUE, NEW YORK, N. Y.

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